



# UNIVERSITY OF SOUTHAMPTON

## *Proposals for Development*





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The purpose of this publication is to describe and illustrate the University's proposals for building developments over the next 20 years not only on its own land but also on adjacent land still to be acquired. It should be emphasised that they are still provisional and will be the subject of a Local Inquiry which is expected to take place in the autumn of 1962.



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## Membership of Joint Development Committee

Professor N. K. Adam	1953-1957
Professor W. E. Armstrong	1959-1960
*A. R. Avens	1952-1962
*Professor H. C. Baldry	1959-1962
*Professor A. N. Black	1953-1962
Miss C. Chamberlain	1952-1956
Dr. N. B. Chapman	1955-1956
W. Coates	1952-1957
*Professor R. C. Cookson	1961-1962
Dr. J. Cruickshank	1957-1958
Professor E. T. Davies	1953-1957
A. E. Douglas	1958-1959
Professor P. Ford	1953-1958
*Dr. F. L. Freeman	1952-1962
Dr. P. T. Freeman	1952-1957
*Dr. N. S. Grassam	1961-1962
*Sir Samuel Gurney-Dixon	1952-1962
Professor C. A. Hackett	1956-1958
R. E. Hall	1960-1961
*Dr. D. G. James	1952-1962
*J. H. Jellett	1955-1962
Professor W. I. Lucas	1953-1959
*A. Lubbock	1952-1962
*R. M. Marsh	1957-1962
*Dr. J. H. J. Matthews	1952-1962
Dr. F. G. Maunsell	1953-1954
Professor P. B. Morice	1959-1961
*Miss M. O'Connor	1955-1962
*J. P. M. Pannell	1959-1962
*Professor A. Phillips	1961-1962
*Professor J. E. G. Rayment	1960-1962
Professor E. J. Richards	1956-1961
Dr. P. G. Richards	1956-1957
*Professor D. C. Rowan	1961-1962
Lt. Col. E. S. Shaxson	1956-1961
*Sir Basil Schonland	1960-1962
*The Bishop of Southamton	1957-1962
Professor A. M. Taylor	1957-1959
Sir Henry Tizard	1952-1959
*Professor Bryan Thwaites	1960-1962
Miss N. Walls (Mrs. W. L. Wilson)	1959-1960
The Dean of Winchester	1952-1955





## 1. Introduction

The main University area, which has been enlarged since it was purchased in 1910, now occupies about 32 acres. Of this over 13 acres lie to the east of University Road and the balance to the west. Soon after the end of the 1939/45 War plans were prepared for the development of the two sites but little detail was given for the West Site. A permanent student population of 1,000 was then envisaged and by 1954 in addition to an Assembly Hall new buildings were provided for Education, Zoology and Chemistry. During this period Glen Eyre Hall of Residence for 150 men students was completed.

In the estimates submitted to the University Grants Committee in 1956 for the Quinquennium 1957/62 a new policy was adopted and an increase to 2,000 by 1965 was proposed. With this expansion in view the services of Mr (now Sir) Basil Spence were retained as Consultant Architect and a plan was prepared, the details of which again related mainly to the East Site; the model which was constructed also illustrated, however, possible future developments for the West Site and certain adjacent areas. It was hoped at that time that residential accommodation would form part of the developments proposed for the West Site.

In 1959 in response to proposals made by the University Grants Committee, which resulted from a review of the national needs by the Government, further consideration was given to student numbers and it was decided to expand the University by 1980 to a total of approximately 4,000 students. These numbers form part of a national plan for the British universities involving an increase from 110,000 in 1961/62 to 150,000 in 1966 and to

170,000 in 1973, which was announced by the Chief Secretary of the Treasury in March 1962. As a result of this decision the Consultant Architect was instructed to revise his plans for the development of the East and West Sites and to suggest how the buildings which could not be accommodated there could be placed on land adjacent to the University. He was also asked to investigate the best use of ground already owned elsewhere for residential purposes. His proposals, which were approved by the University Council in March 1961 and submitted to the Southampton Borough Council in June 1961, are, together with the buildings completed since 1956, described in this publication.

The general supervision of these planning activities has been the responsibility of the Joint Development Committee of the Council. This committee includes representatives of the Senate and the non-professorial staff as well as Council members.

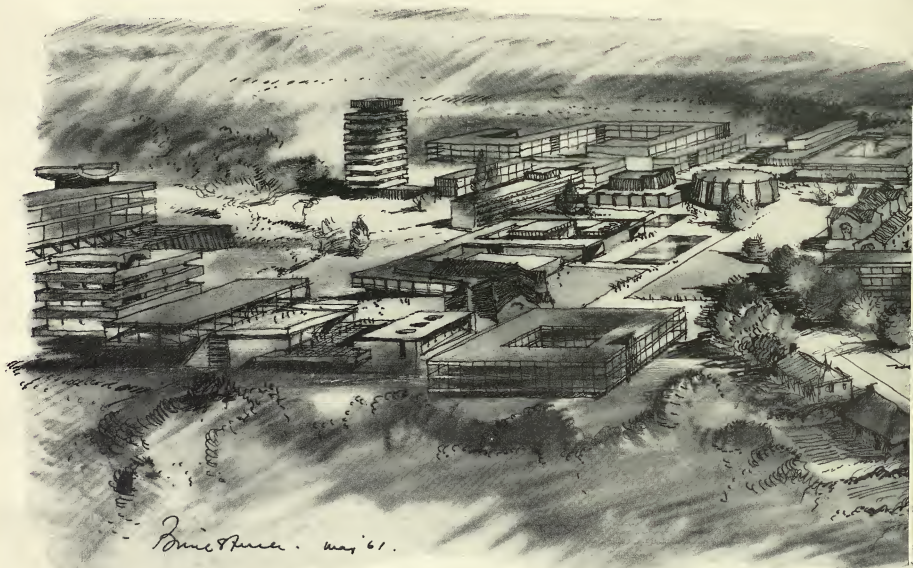
## 2. Student Numbers

The proposed growth in student numbers is best illustrated by the following table, which gives the breakdown by Faculties of the expansion approved by the Senate and Council of the University:

Faculty	1961/62	1966/67	1976/77
Arts	433	540	800
Social Sciences	216	270	400
Law	73	100	150
Education	132	150	200
Science	623	850	1200
Engineering	339	550	900
	1,816	2,460	3,650

By 1980 further expansion and an allowance for Medicine would bring this figure to 4,000.

*Opposite: Lanchester Engineering Building and World War I huts*







### 3. *Present and Future*

The land owned by the University at the time of the submission of the development proposals was made up as follows:

East Site	13 acres
West Site	19
Highfield Hall	2
Glen Eyre Hall	17
Chamberlain Hall	6
South Stoneham House	7
Connaught Hall	8
Montefiore Sports Ground	8
Wellington Sports Ground	27
	<hr/>
	107 acres

The East and West Sites accommodate at present the Faculties of Arts, Science, Engineering, Social Sciences, Education and Law and the Library, the University offices, the Senior Common Room and the Students' Union. Nearly all the teaching and research work is carried out in the East Site, and the Library and part of the offices are also accommodated there. The Senior Common Room and the Union, providing dining-rooms and other amenities for staff and students, are the major buildings on the West Site. The most notable pre-war building is the Main Building, which contains part of the Library and the Administration as well as a number of class-rooms used by several Faculties. The post-war buildings which have been erected recently or are in course

Drawing by Sir Basil Spence of the East and West Sites from the south on completion of the present proposals



of erection on the East Site include three large Engineering buildings of two, five and ten storeys as well as buildings for Chemistry, Social Sciences, Education, Zoology and the Library. The general pattern was originally one of two storeys, but the Gurney-Dixon Library Building and the Physics Building have three and the new Chemistry Building six.

Under the supervision of the Joint Development Committee a Planning Committee for each scheme is established. This Committee, which always includes representatives of the users of the new building, is responsible for the work up to the tendering stage, after which a small supervisory Sub-Committee of the Works Committee takes over the completion of the scheme.

It will thus be seen that the present University is compact, with Faculty buildings closely related to each other. There are no Halls of Residence on the East or West Sites, the nearest being half a mile distant and the farthest a mile. The Montefiore and Wellington Sports Grounds are reasonably convenient at distances of one and two miles from the University. Apart from just over 7 acres of land lying to the south and west of Chamberlain Road in an area known as Highfield Village (regarded as suitable for Halls of Residence) the proposals for the acquisition of additional land relate to 21 acres adjacent to the East and West Sites. This area, with the exception of a site for a proposed Hall of Residence for graduate Students, will be used for academic, administrative and communal purposes.

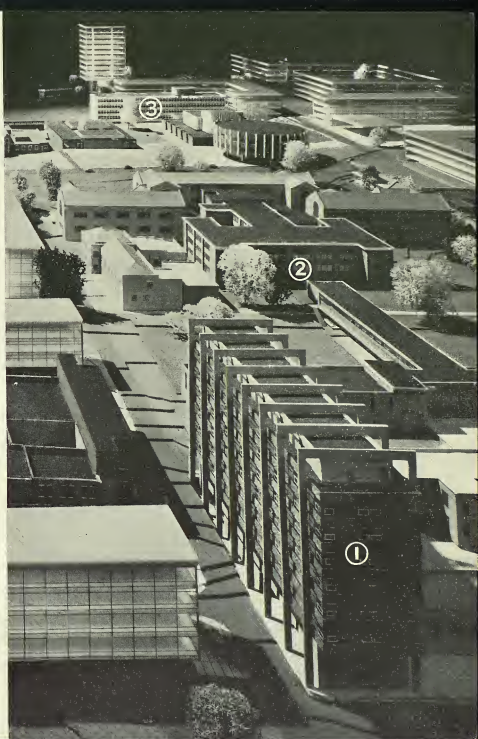
In planning the disposition of buildings on the extended East and West Sites, which will amount together to nearly 54 acres, every effort has been taken to form

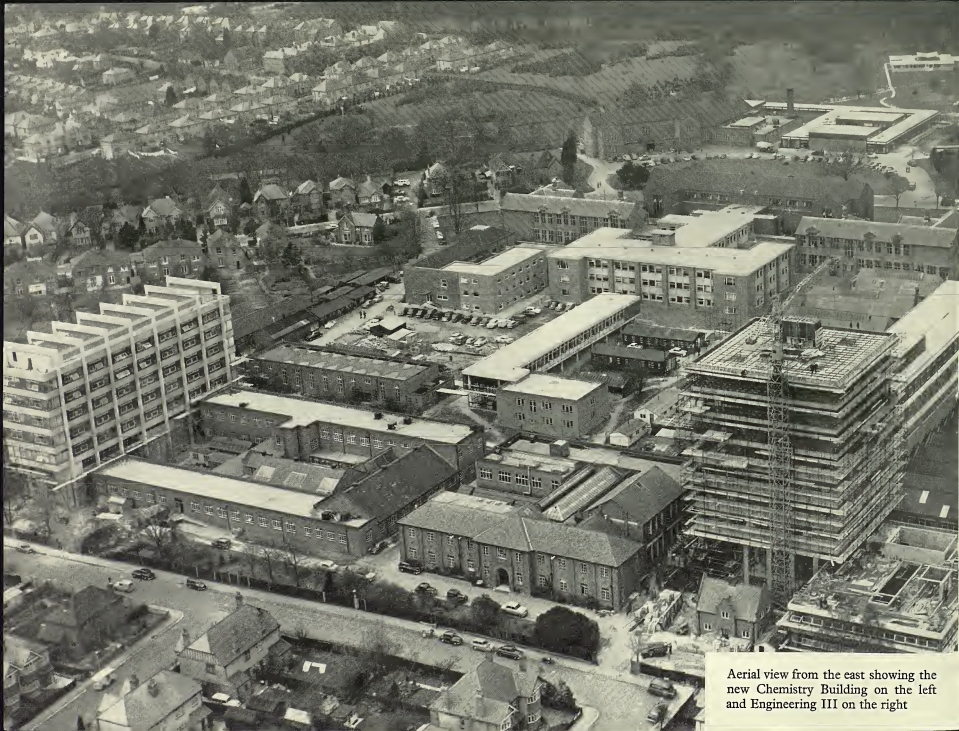
groups of buildings which are in close relationship with each other. This has generally proved possible except in the Faculty of Science, where certain large departments will be grouped apart from each other. This has largely been dictated by the restricted area of land available at present and by the siting of certain new buildings before the present plan was adopted. The distances between these buildings vary from 200 to 400 yards.

Finally mention should be made of the proximity of Southampton Common. The complete west boundary of the West Site is formed by the Common, which extends for over a mile to the west, and the University can be regarded as very fortunate in finding itself adjacent to such a large area of open land. There is every indication that the Common will be free of buildings for generations to come and this has proved an important consideration in the preparation of the plans.

Photograph of part of the Model

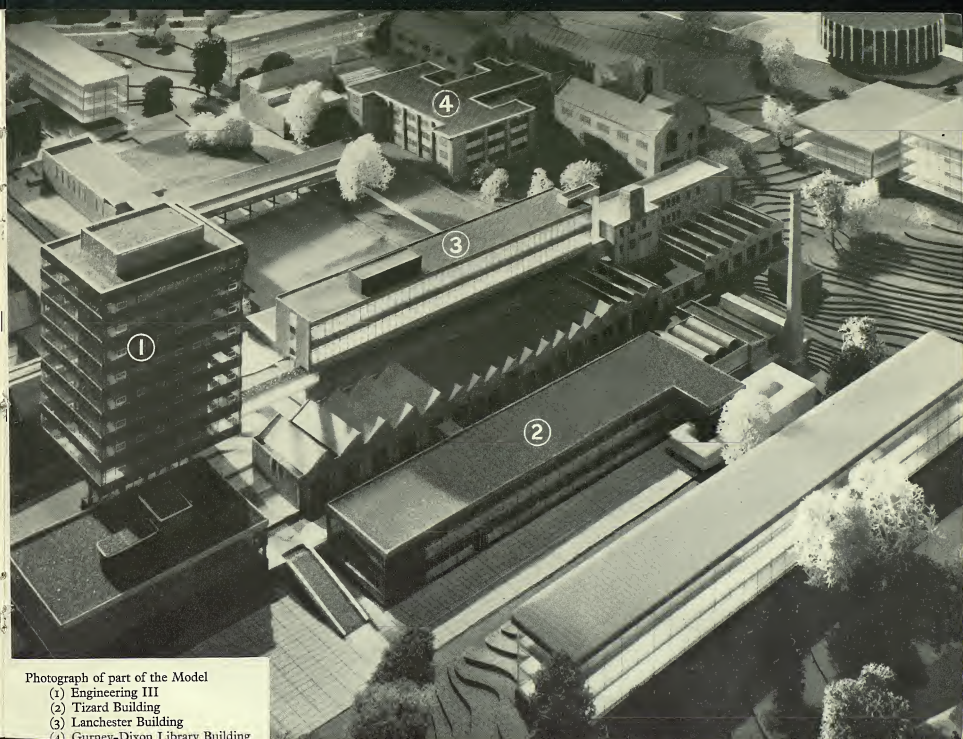
- (1) New Chemistry Building
- (2) Gurney-Dixon Library Building
- (3) New Arts Building and Theatre





Aerial view from the east showing the new Chemistry Building on the left and Engineering III on the right





Photograph of part of the Model

- (1) Engineering III
- (2) Tizard Building
- (3) Lanchester Building
- (4) Gurney-Dixon Library Building





Gurney-Dixon Library Building



BASED UPON THE ORDNANCE  
SURVEY MAP WITH THE SANCTION  
OF THE CONTROLLER OF H.M. STATIONERY  
OFFICE. CROWN COPYRIGHT RESERVED

BURGESS ROAD

SOUTHAMPTON  
COMMON

HIGHTFIELD

VILLAGE

HIGHTFIELD LANE

0 100 YDS 200 YDS  
SCALE

EXISTING BOUNDARY  
PROPOSED BOUNDARY



ARTS  
SCIENCE  
ENGINEERING  
SOCIAL SCIENCES  
INSTITUTE OF EDUCATION  
LAW  
MEDICINE  
CENTRAL FACILITIES  
HALL OF RESIDENCE  
RING ROUTE  
CAD PARKS



# UNIVERSITY OF SOUTHAMPTON

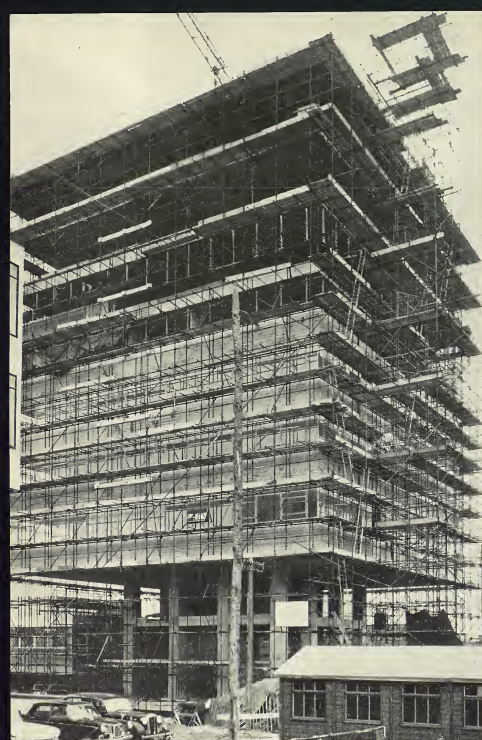


## Existing buildings

- |  |                           |
|--|---------------------------|
| 1. Main Building                                 | 7. Chemistry              |
| 2. Refectory                                     | 8. Physics                |
| 3. Senior Common Room                            | 9. Institute of Education |
| 4. Engineering I                                 | 10. Social Sciences       |
| 5. Engineering II                                | 11. Computation           |
| 6. Geology, Zoology, Physiology and Biochemistry | 12. Hydraulics Model      |

## Buildings under construction and proposed

- |                                |                               |
|--------------------------------|-------------------------------|
| 13. Engineering III (1960)     | 29. Law (1969)                |
| 14. Chemistry Extension (1960) | 30. Engineering V (1969)      |
| 15. Arts (1961)                | 31. Social Sciences II (1970) |
| 16. Nuffield Theatre (1961)    | 32. Hall of Residence (1970)  |
| 17. Mathematics I (1962)       | 33. Engineering VI (1971)     |
| 18. Physics I (1963)           | 34. Chemistry II (1971)       |
| 19. Union (1963)               | 35. Arts II (1971)            |
| 20. Geology (1964)             | 36. Mathematics II (1971)     |
| 21. Botany (1964)              | 37. Hall of Residence (1972)  |
| 22. Administration (1965)      | 38. Graduate Hall (1974)      |
| 23. Geography (1965)           | 39. Physics II (1975)         |
| 24. Engineering IIA (1965)     | 40. Engineering VII (1976)    |
| 25. Engineering IV (1965)      | 41. Chemistry III (1977)      |
| 26. Great Hall (1966)          | 42. Physics III (1977)        |
| 27. Works Department (1967)    | 43. Medicine (1978)           |
| 28. Zoology (1968)             |                               |



#### 4. *Description of the Proposals*

Note: The years in parentheses indicate starting dates of new buildings.

##### *General*

A site of 54 acres for a University of 4,000 students inevitably means a setting of courts rather than parkland, and this in turn keeps the Faculties comparatively close to each other. The Library, the building for the University offices, the Students' Union, the Senior Common Room, the Nuffield Theatre and the Great Hall, forming the central area, are conveniently placed for the departmental buildings. Although the desirability of grouping buildings with a common relationship has been recognised, it must also be remembered that, as several departments are members of more than one Faculty, it is almost impossible to achieve this aim. The roads and paths have been planned to facilitate movement between departments with common interests which have been unavoidably sited at some distance from each other.

##### *Teaching and Research Buildings*

The new Arts Building (1961) on the West Site will initially provide accommodation for all the departments of the Faculties of Arts and Law with the exception of Geography and Mathematics. With the Nuffield Theatre it will form eventually the nucleus of several buildings accommodating departments in the Faculty of Arts or departments with strong associations with the Faculty. The Law (1969) and Geography (1966) Buildings will be adjacent, and provision is also made for a further Arts Building (1971). Education and the Social Sciences are

Engineering III in course of construction



too well established on the East Site to permit them to be brought into this group.

It has not proved practicable to keep the Faculty of Science buildings in one group. Shortage of land made it impossible for both the Chemistry and Physics Departments, which are at present adjacent, to be extended, with the result that the new Chemistry Building (1960) is beside the 1952 building on the East Site and the whole Physics Department will have to be transferred to the West Site (1963). Although Mathematics (1962), Botany (1964) and Geology (1964) will be built close to Physics, a further division of the Faculty will occur with the completion of a new building for Zoology (1968) in the northern part of the development area.

At present the Faculty of Engineering is accommodated in three new buildings on the East Site completed since 1959 and in the pre-war Eustice Building; there is also an extensive range of workshops. Provision is made in the proposals for the siting of buildings immediately to the north to meet the estimated needs of the Faculty, which will thus be conveniently grouped and also satisfactorily related to the Mathematics Building.

The Faculty of Social Sciences is housed in a new building on the East Site with some part of its activities taking place in the small adjacent Arts Building. The ground floor of the latter building will become available for the Faculty when it is vacated by the Arts Faculty and to supplement this accommodation a second Social Sciences Building (1970) will be erected on the site of the present Assembly Hall.

In 1961 the post-war building housing the Faculty and Institute of Education was extended, and this extension should provide adequate accommodation for the student numbers envisaged in the proposals.

An area in the north-west corner of the site has been allocated for pre-clinical medical buildings, but the date of erection is subject to national policy on the establishment of new medical schools, which is still under discussion. Of the two biology departments, Zoology is adjacent and Botany is not very far away.

#### *Other Buildings*

The Library, comprising a pre-war building and a large post-war extension completed in 1959, has shelving for 250,000 books and periodicals, and places for 550 readers. Additional accommodation can be obtained by adding a fourth storey to the 1959 Gurney-Dixon Building and by using the north and south wings of the Main Building, but it may prove to be preferable to demolish these wings and to erect new Library buildings in their place. The administrative staff is unsatisfactorily accommodated in different parts of the University, and it will be necessary to erect a new Administration Building (1966), which has been allocated a site to the south of the Main Building.

The Students' Union is at present accommodated on the West Site in a pre-war building with an extension completed in 1960; a new building (1963), to be associated with the present building, will be erected to the south-west. There will be a gymnasium as well as facilities for a number of indoor games, and the two buildings should be adequate for 4,000 students. Joined to the present Union Building is the new Senior Common Room, also completed in 1960, which is considered to be large enough to meet the demands of the development period.

The Nuffield Theatre (1961) has been made possible by a generous grant from the Nuffield Foundation and will be



Model of Arts Building and Nuffield Theatre now in course of erection.  
On the left is part of the completed Senior Common Room Building

used as the principal lecture theatre as well as serving drama, music and the cinema. Its maximum capacity is 510 seats. A notable lack in the University at present is a Great Hall for ceremonial occasions, examinations and large social gatherings. The site proposed for this building is adjacent to the Senior Common Room, but unfortunately it does not seem likely that a place in the building programme can be found for it until late in the 1960's.

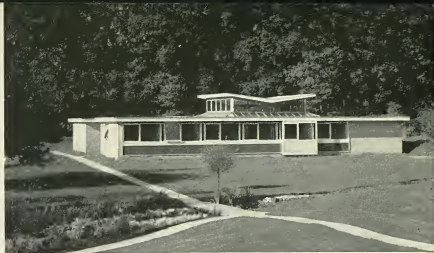
The central siting of all these buildings, which will define the principal court of the University, will be reasonably convenient for all departments.

### *5. Roads, Car Parks and Open Spaces*

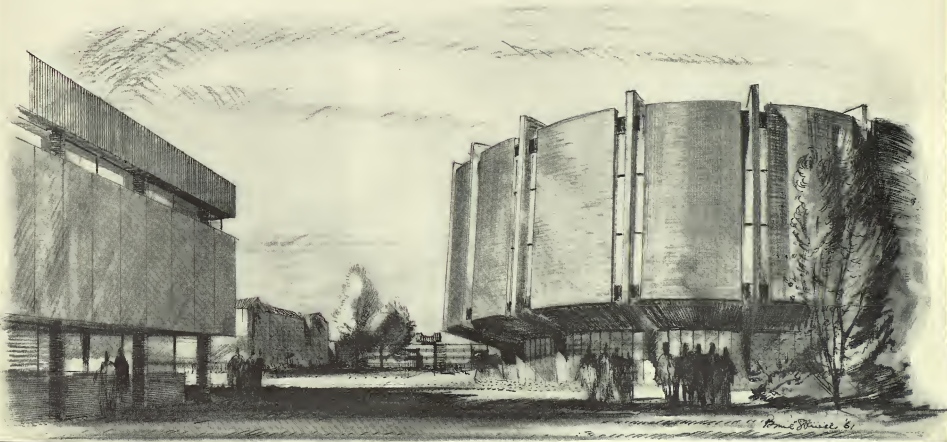
The approaches to the University are satisfactory from the north, the east and the west, and the main need is to improve the southern approach from the centre of Southampton. It is proposed to achieve this by connecting Furzedown Road to the West Site and thus to open a direct route to the University by way of The Avenue and Highfield Road.

The division of the East and West Sites by University Road, which carries heavy traffic, including public

*Right:* Computer Building



*Below:* Drawing by Sir Basil Spence showing the projected Great Hall from the north with the Turner Sims Library Building in the background.



service vehicles, is the most unsatisfactory aspect of the present layout. It is proposed to divert this route to the east of the expanded site and to substitute a ring road, which will give access to all buildings and car parks, except at the southern end of the site. This ring road will have connections with Furzedown Road, Chamberlain Road, Burgess Road, Broadlands Road, Hartley Avenue and University Road. In addition to this major change a number of existing public roads will become part of the internal road system or will be used for building purposes. In most cases this will provide a more pleasing boundary than at present. Footpaths are extensively provided and it is also hoped to permit pedestrian access from the Common. The main open space will be the valley running from the Mathematics Building to the new Union Building. Otherwise there will be a series of courts with, in addition, some interior courtyards. A full report on landscaping will be prepared in due course.

The proposed car-parking facilities for 1,200 cars will clearly not meet the University's potential demand. It was felt that a lower figure would be unrealistic, but that provision of a greater area would not be practicable for the size of the site. The basic plan provides for surface parking located near the ring road to serve building groups rather than individual buildings. One parking site has also been allocated for a multi-storey parking building, if a substantial demand for more parking places must be met.

### *6. Halls of Residence*

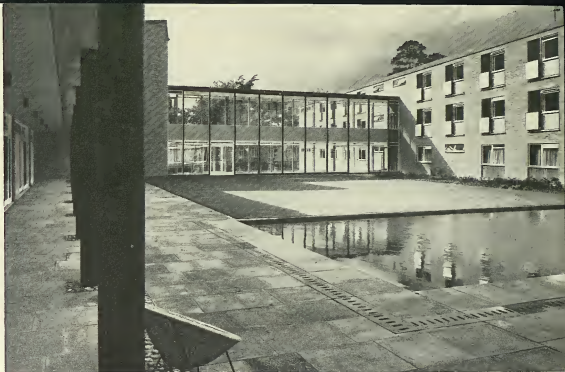
The former University College attached great importance to Halls of Residence, and when the University was established in 1952, 47 per cent. of the students lived in Halls of Residence. By Session 1961/62, despite the com-

pletion of a new Hall of Residence for women students, there was a fall to 37 per cent, but by Session 1963/64, 875 students out of a total population of 2,000 (43.75 per cent.) will be accommodated in Halls. Provided that the necessary financial support is forthcoming it is hoped to maintain this proportion throughout the period of development and in the closing stages to accommodate just over 60 per cent. of the students in Halls.

Schemes in progress at present are an extension to Glen Eyre Hall (100 additional students), an extension to South Stoneham House (175 additional students), and provision is made in the approved building programme for the period up to 1965 for an extension to Connaught Hall (170 additional students) and for a new Hall in the Glen Eyre Estate (200 students). The remaining new Halls will be situated at the Montefiore Sports Ground (500), Glen Eyre (200), Highfield Village (435) and the East Site (100 graduates). The University is very anxious to provide this large number of residential places not only because of the importance of Halls in the life of the University but also on account of the difficulty of finding suitable and convenient lodgings. Ideally Halls of Residence should be beside the teaching buildings, but this is only proposed for the Graduate Hall and for the two Halls in Highfield Village, which will be almost adjacent to the West Site. In the former case many of the residents must necessarily have easy access to their laboratories at regular intervals during the day and night.

The University is fortunate in the possession of the Montefiore and Wellington Sports Grounds (8 and 27 acres). The plans provide for the use of the former for Halls of Residence, but this is on the understanding that a new ground will be established in the neighbourhood of the Wellington Ground.

Chamberlain Hall



Model of South Stoneham House Scheme  
(now nearing completion)





## 7. *Acquisition of Land*

The development proposals relating in all to 28 acres of additional land have been timed to permit the acquisition of properties from the centre to the final boundaries without leaving isolated pockets of dwelling-houses. Care has been taken in the siting of buildings to ensure that there are no daylight infringements, and in the same way the proposed changes in the road layout will not be allowed to affect non-University property. Regrettably, displacement of families on a considerable scale is unavoidable, but every effort will be made to ensure that movement from houses will take place at times convenient to the occupants.

It is important to remember that although the Development Proposals cover a period of nearly 20 years up to 1980 and an expansion to 4,000 students, adjustments in the plan will be inevitable as the needs of the more distant future become clearer. It was not considered practicable to look beyond 1980 in making the present submission to the Southampton Borough Council, owing to the difficulty of foreseeing academic requirements beyond this year.

Finally the University wishes to express thanks to the University Grants Committee for the support that has been received in the framing of the proposals and in the provision of the financial resources required for the purchase of the property in the development areas.

### ACKNOWLEDGMENTS

The buildings illustrated were designed by Sir Basil Spence, O.B.E., R.A., R.D.I., P.P.R.I.B.A. (Consultant Architect to the University), with the following exceptions:

Edward Turner Sims Library  
Gurney-Dixon Library Building  
The Computer Building  
South Stoneham House Scheme

Gutteridge and Gutteridge  
Ronald Sims, A.R.I.B.A., A.A.Dipl.  
Robert Potter and Richard Hare

Photography is by Alan D. Baker (pages 8, 12 and 16); Henk Snoek (front cover and pages 4, 9, 11, 18 and 21 (top)); Southern Newspapers, Ltd. (pages 2 and 10); E. G. Patience (back cover); Colin Westwood (page 21 (bottom)).

Drawings are by Sir Basil Spence.

## APPENDIX

A. Buildings completed		Completion date	Floor area	Building Cost*	Architect	
			sq. ft.	£		
Southampton Water Tidal Model		October 1957	4,000	16,305	Ronald Sims	
Computer		February 1958	4,194	13,589	Ronald Sims	
Social Sciences I		April 1959	4,327	32,276	Sir Basil Spence	
Wellington Sports Pavilion		May 1959	5,335	19,296	Ronald Sims	
Gurney-Dixon Building (Library Extension)		July 1959	33,000	188,889	Gutteridge and Gutteridge	
Lanchester Building (Engineering I)		July 1959	44,675	223,670	Sir Basil Spence	
Tizard Building (Engineering II)		December 1959	28,874	143,108	Sir Basil Spence	
Chamberlain Hall (180 women students)		May 1960	71,138	280,818	Sir Basil Spence	
Physics Building Extension and Alterations		September 1960	8,380	54,430	Gutteridge and Gutteridge	
Senior Common Room and Refectory Extension		September 1960	24,224	115,004	Sir Basil Spence	
Education Building Extension and Alterations		August 1961	7,395	45,097	Gutteridge and Gutteridge	
B. Buildings in progress		Starting date	Completion date	Floor area	Building Cost*	Architect
				sq. ft.	£	
Chemistry Extension (Chemistry I)	March 1960	August 1962	46,000	275,475	Sir Basil Spence	
Engineering III	April 1960	April 1963	67,750	392,040	Sir Basil Spence	
South Stoneham House Extension (175 men students)	October 1960	December 1962	63,773	277,331	Potter and Hare	
Glen Eyre Hall Extension (100 men students)	April 1961	August 1962	25,238	137,343	Gutteridge and Gutteridge	
Arts Building (Arts I)	October 1961	July 1963	46,303	313,921	Sir Basil Spence	
Nuffield Theatre	October 1961	October 1963	12,850	144,549	Sir Basil Spence	
C. Buildings in Approved University Grants Committee Programme		Starting date	Year of completion	Approximate floor area	Architect	
				sq. ft.		
Connaught Hall Extension (170 men students)	1962	1964	48,000	Potter and Hare		
Mathematics Building (Mathematics I)	1962	1965	45,000	Ronald Sims		
New Physics Building (Physics I)	1963	1966	100,000	Sir Basil Spence		
Students' Union Building	1963	1966	73,000	Sir Basil Spence		
New Botany Building	1964	1966	32,000	Sir Basil Spence		
New Geology Building	1964	1966	28,000	Sir Basil Spence		
Additional Hall of Residence at Glen Eyre (200 students)	1965	1966	200 places	—		

\* Excluding the cost of built-in furniture except in the case of the Nuffield Theatre.

## APPENDIX

### D. Remaining buildings envisaged during the period of the developments

	<i>Starting date</i>	<i>Approximate size</i>
Administration	1966 and 1967	30,000 sq. ft.
Geography		32,000 sq. ft.
Engineering IIa		20,000 sq. ft.
Engineering IV		48,200 sq. ft.
Reactor		12,000 sq. ft.
Great Hall		20,000 sq. ft.
Additional Hall of Residence at Glen Eyre		200 places
Zoology	1968	39,200 sq. ft.
New Hall of Residence at Montefiore Sports Ground	1968	200 places
Law	1969	20,720 sq. ft.
Engineering V	1969	40,000 sq. ft.
Social Sciences II	1970	9,600 sq. ft.
New Hall of Residence in Highfield Village	1970	200 places
Engineering VI	1971	57,200 sq. ft.
Chemistry II	1971	35,200 sq. ft.
Arts Building Extension (Arts II)	1971	11,840 sq. ft.
Mathematics Building Extension (Mathematics II)	1971	17,400 sq. ft.
New Hall of Residence in Highfield Village	1972	235 places
Graduate Hall	1974	100 places
Physics II	1975	24,000 sq. ft.
Engineering VII	1976	64,200 sq. ft.
New Hall of Residence at Montefiore Sports Ground	1976	300 places
Chemistry III	1977	35,200 sq. ft.
Physics III	1977	24,000 sq. ft.
Pre-clinical Medical School	1978	176,000 sq. ft.

